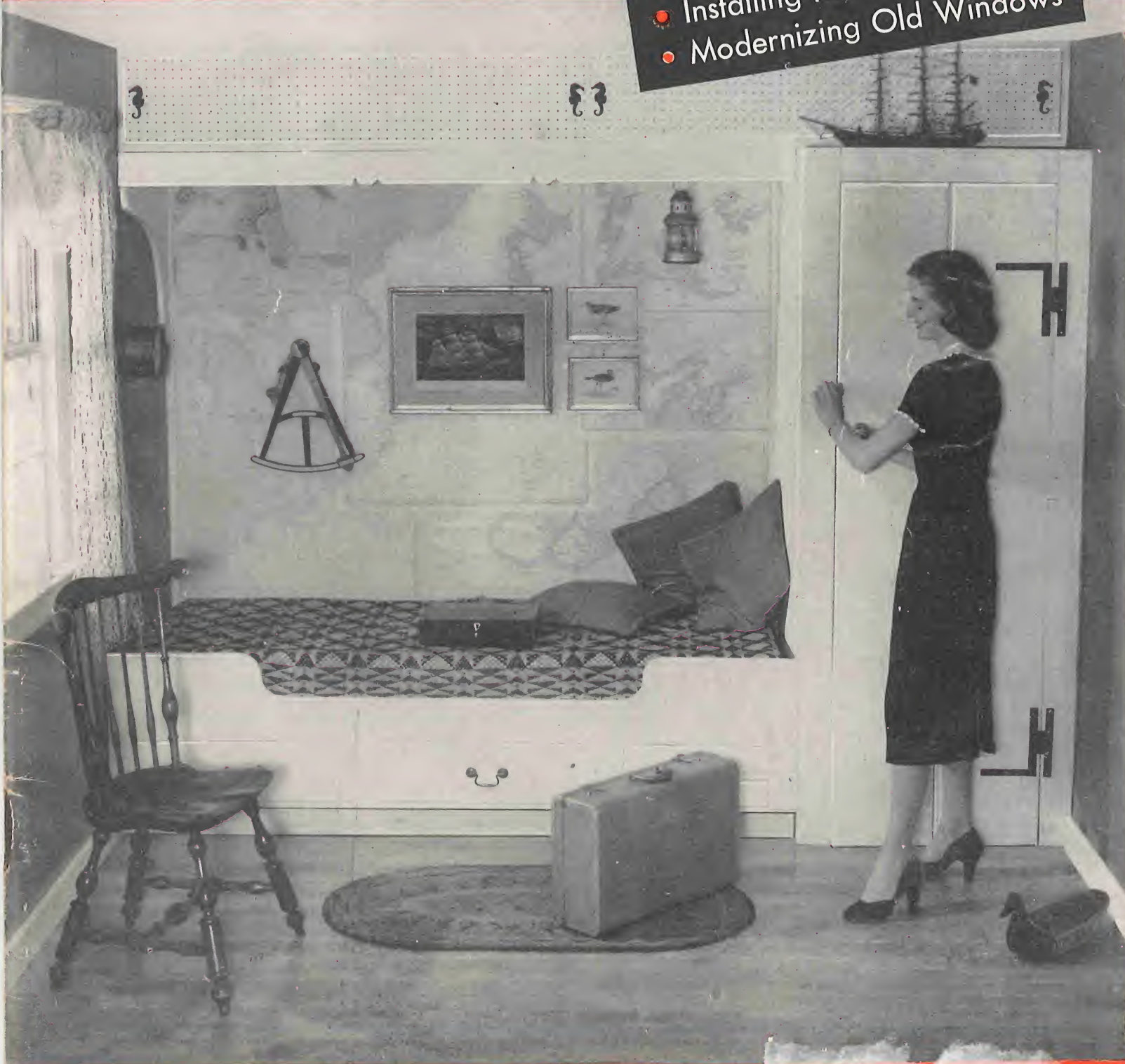


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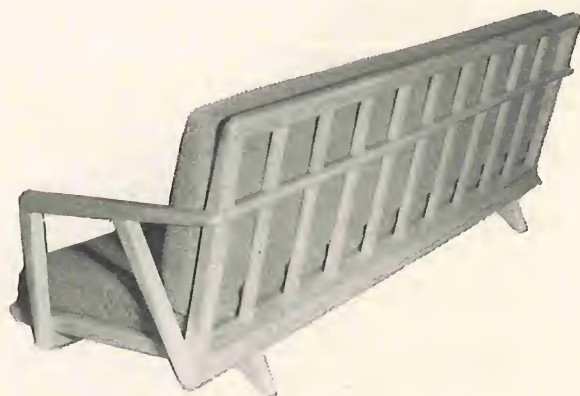


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# SOFA IN SWEDISH



Both design and construction are simple, but fine proportions and careful workmanship make this a piece of distinguished quality . . . The wood is curly maple or other close-grained hardwood . . . the cushions are standard preformed sections of foam rubber

THE unique feature of this handsome sofa is its similarity to the popular Swedish Modern pieces which have been introduced into the United States in recent years. Simple, sturdy construction combined with careful shaping and finishing give this sofa a hand-worked quality found only in expensive custom or imported furniture. The rounded corners and set-back positions of the legs emphasize the simplicity of design and construction. The back support, arms and front rail are joined together into the continuous support. The back arm supports and back rail form a second continuous line.

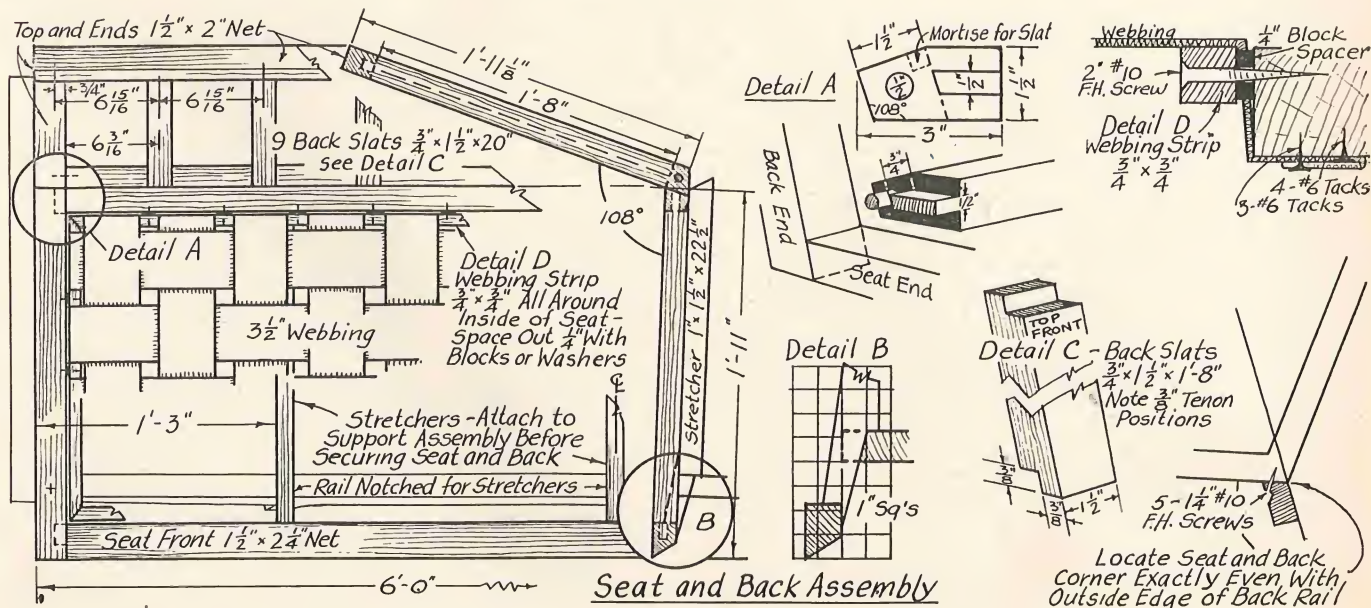
The sofa shown in the photographs was constructed entirely of carefully selected curly maple, since this wood and its beautiful grain pattern are well suited to clear finishing with lacquer. However, other close-grained hardwoods could be used.

Begin construction by making a full-size layout of the arm section on paper or cardboard. Draw it accurately from the dimensions shown in the support assembly drawing. It's a good idea to tack this pattern down on a flat wood surface and assemble the arm sections over it. Work directly from pattern to wood in full size. Dimensions shown are net sizes, so allow for sawing and planing.

While laying out tapers on the arm supports, be sure to add  $\frac{3}{4}$ " to the length for the tenons. The tenon on the rear support can extend all the way across the end, but cut  $\frac{3}{4}$ " from the front of the tenon on the front end of the arm. Make these tenons  $\frac{3}{8}$ " thick, centered on the ends of the supports. Check the angles on the full-size pattern. Cut the mortises in the arms with the mortising attachment on the drill press. Now make a trial assembly of each arm section on top of the pattern

and check the angles. Make a temporary clamp by securely nailing  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " strips on the pattern along the line of the arm at the top. Use smaller pieces on both sides of the arm supports, but leave space for wedges between the ends of the supports and the blocks. Apply glue to the joints, set the sections in place, and wedge tightly with hardwood wedges. When the glue is thoroughly set, remove the first section from the clamp and proceed with the second in the same manner. The use of one of the new quick-setting white glues will speed up operations by many hours.

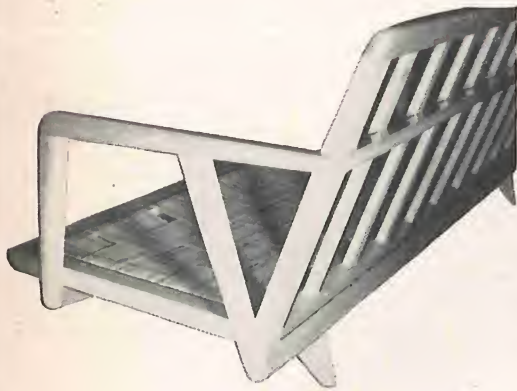
While the arm sections are in the clamp, work can proceed on the front and back support rails. These are  $1\frac{1}{4}$ " thick and 6 ft. long. The front rail is tapered on each end for a length of 15". Locate these points after jointing the entire piece to 3". The ends will be 2" wide after tapering. The base of the taper will locate the front





# MODERN STYLE

By CARL J. HEYNE



legs, as can be seen on the support assembly drawing. The back rail, also  $1\frac{1}{4}$ " thick, shows a finish face width of 2". Cut the board  $2\frac{1}{2}$ " wide, however, to allow for the  $110^\circ$  angle of the top outside corner. Use the back leg pattern to find the correct shape for the back rail.

The next step in construction is to join the arm sections to the rails. Mark and drill the rail ends  $1\frac{1}{4}$ " deep for two  $\frac{3}{8}$ " dowels. Locate the centers of the dowel holes  $\frac{1}{2}$ " from the faces of the support rails. This is important, because the ends of the rails will be faired off to 1" to match the bottoms of the arm supports. Locate matching dowel holes in the arm supports, measuring from the outside, or facing, edges in order to coincide with the rail ends. Drill these holes 1" deep only. Cut eight pieces of  $\frac{3}{8}$ " dowel 2" long. Glue the dowels into the arm sections; then coat the joint and tap the arm sections onto the rails. Use long clamps to hold the assembly tight until the glue is well set. Use extra braces clamped on if necessary to hold the assembly square.

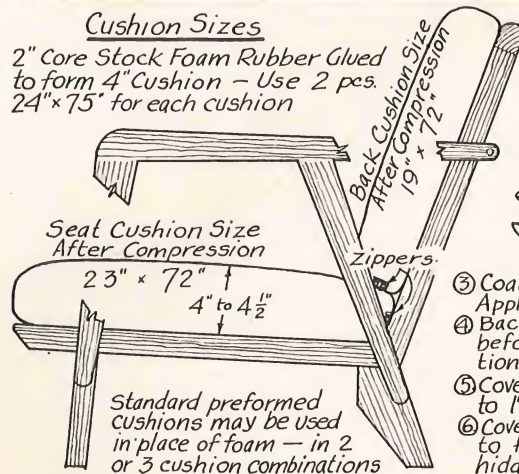
While the support assembly is setting up, draw and cut the legs. Make the front legs  $1\frac{1}{4}$ " thick, and the back legs  $1\frac{1}{2}$ " thick. Drill body holes for No. 10 wood screws at locations shown and countersink

(Continued on page 44)



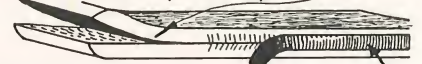
## Cushion Sizes

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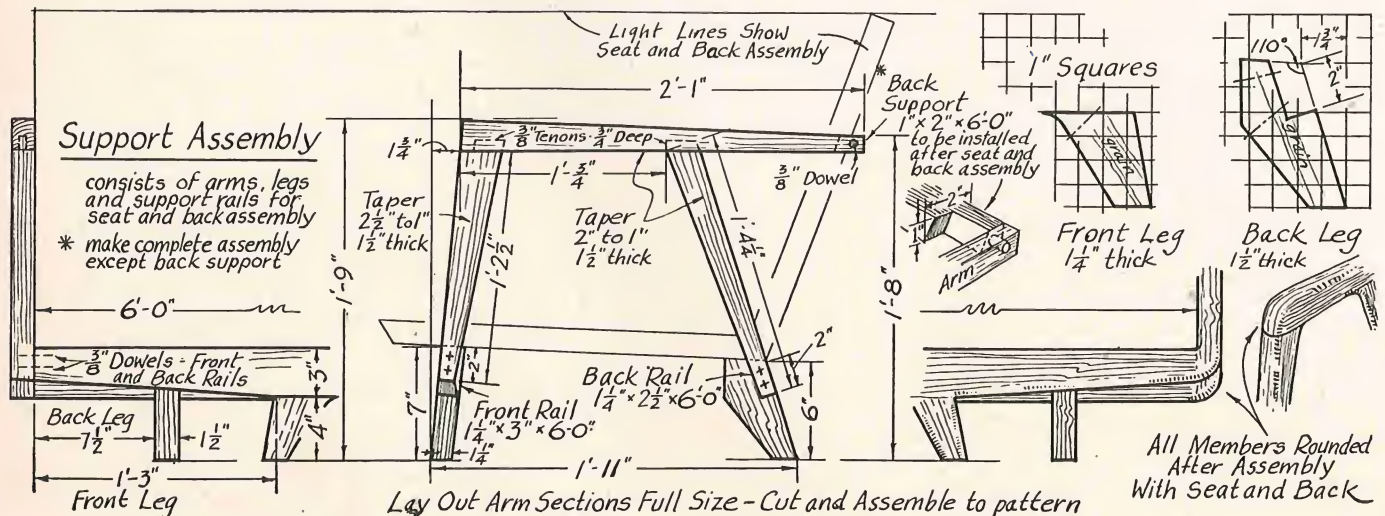


## Steps in Making Cushions

- ① Lay core stock on floor with open cores up. - Coat two core sides with rubber cement - Let dry -
- ② With several helpers, lower one coated section onto the other - Start at one end - Proceed very carefully as joints once made cannot be pulled apart -



- ③ Coat joint all around edge  $2\frac{1}{2}$ " wide - Apply rubber coated tape over joint -
- ④ Back cushion must be cut to 21" width before taping - Use knife in sawing motion - Tape raw edge
- ⑤ Cover cushions with muslin, compressing to 1" over indicated size -
- ⑥ Cover with finish material - Compress to finish size - Use 72" zippers on hidden long edges to permit removal -





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**Swedish Modern Sofa**

(Continued from page 23)

with a 7/8" metal drill deep enough so that only 1" of wood is left beneath the screw head in each hole. Locate the legs on the rails after removing the assembly from the clamps. Drill 1" deep pilot holes in the rails for the screws. Coat the joints with glue and mount the legs with 2" No. 10 flathead screws.

This completes the support assembly except for the back support. Wait until the seat and back assembly is in place before notching and securing the back support.

The seat and back assembly can now be constructed. Begin by making the back seat rail. This is shown as detail A in the drawing. Select a straight, clear piece of wood for this member to avoid future twisting or warping. Dress the piece to 1 1/2" x 3", then mark the angle as shown on the drawing. The critical measurements are the 1 1/2" slanted top face and the 108° angle which determines the slant of the back. Cut the faces off carefully and plane down to size. Next mark and cut for length. The exposed length is 5'-8", plus 3/4" long tenons on each end. Mark and cut these tenons 1/2" thick to the size shown in detail A. A 1/2" hole will be drilled later behind the tenon as shown, and a 1/2" dowel inserted through the end member of the back.

The mortises for the back slats are cut at right angles to the slanted face, or 18° from vertical. Check the seat and back assembly drawing for location of mortises. The center of the first mortise is 6 3/8" from the end of the rail. From here, centers are spaced 6 1/8". Lay these out lightly and make any adjustments necessary before drawing the final outlines for the mortises. Cut the mortises a little over 3/8" deep.

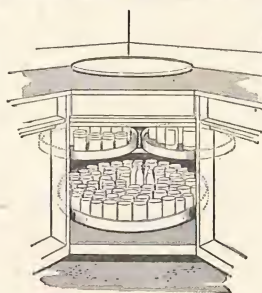
The end and top members for the seat and back are all 1 1/2" x 2" sections, and can be made at one time without changing the saw and jointer for each piece. The seat front may also be cut to thickness at the same time, although its width is 2 1/4". The seat end members are 23" long, with angles at both ends. The front angle is shown in detail B, and is a cut-back of about 3/4". This angle may be changed to suit individual taste, but should not be greater than a 1" cut-back. The angle at the back must be 108° as in detail A.

After cutting the seat ends to length, cut mortises to match the drawing. Keep the front mortise 1" from the end to prevent its cutting through the slanted portion. Cut it 1" deep. The rear mortise, which is 3/4" deep, is cut to the end of the member as shown in detail A and the side projection drawing.

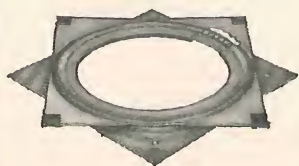
The seat front is 5'-8" long, plus 1" tenons on the ends. Be sure to cut the tenons narrow—about 1/4" wide, or 1" from the front edge.

Cut the back end members next. The tops of these members will form 1/2" tenons 1" long and 1 1/4" wide. This width should not be increased or the tenons may break through when rounding the corners of the back top member. The bottoms of the end members should be angled as shown in detail A. The joint at the bottom is made by drilling a 1/2" hole through the end

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member into the back seat rail. This also is shown clearly in detail A. These holes should be drilled after temporarily installing several back slats to hold the back steady. This operation is described later.

Cut the back top member to length, and mortise for the ends. These mortises will be  $\frac{1}{2}$ " x  $1\frac{1}{4}$ " x 1" deep. This will allow  $\frac{3}{4}$ " clear at the end of the piece. Next mark the mortises for the back slats. These are set back  $\frac{3}{8}$ " from the face. Cut them a little over  $\frac{3}{8}$ " deep.

Now cut nine back slats  $\frac{3}{4}$ " x  $1\frac{1}{2}$ " x 20", plus  $\frac{3}{8}$ " long tenons at both ends. Note in detail C how the tenon positions are reversed. It's very important to cut the slats identically, so each operation should be made as a mechanical set-up, with stops for cuts and tenons; and all pieces must go through the same operation with the same machine setting. This will not only assure identical pieces, but will save much time as well.

After the slats have been completed, tap the two outside ones into place in the back seat rail. Now set the back top member in place and tap tight. Lastly, insert end members of the back into the back top member, and assemble the seat temporarily. Make sure all the joints are tight and square. Now clamp the end members to



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the back seat rail and drill through the ends and into the seat rail about 1". Locate the holes where the arm supports will cover them later. Measure this location from your full-size pattern.

If the joints are satisfactory, assemble with glue. Do the seat members first and clamp them. Next tap the slats into place and set the back top member, with ends already in place, down on the slats. Begin at one end and work across, fitting the tenons to the mortises. Tap with a block and mallet until the joints are tight. Last of all, insert  $\frac{1}{2}$ " dowels into the holes at the bottoms of the back end pieces. Clamp the end pieces in after checking the angle with the seat end members. Clamp the entire assembly and allow the glue to set thoroughly before removing the clamps.

Before connecting the two assemblies, the stretchers must be installed. Cut them according to the plan and clamp them in temporarily. Lift the seat and back assembly into place. Don't force it down between the arms. If necessary, sand or plane off the ends to permit a sliding fit. When the back corners line up as shown in the seat and back assembly drawing, check the stretchers for size. If they hold the seat front too high, the seat ends will not rest on the front support rail. Forcing the ends down will put a curve into the seat front. When you are satisfied that all joints are as they should be, clamp the seat to the support rails temporarily. Drill down

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through the seat ends on each side of the sofa into the front support rail. Countersink with a 1/8" metal drill, leaving 1" thickness of wood for the screw body. Use 2" No. 10 flathead screws. Turn the sofa over and drill the underside of the back support rail as shown in the drawing for five 1 1/4" No. 10 flathead screws. Turn the sofa over on its legs.

Cut the back support now. It should be notched as shown in the support assembly drawings so that it fits around the back end. Be sure to get the angle to match the back of the slats. Clamp the piece temporarily and drill for a 3/8" dowel through the arm into the end of the back support. Drill each slat from the front for a 1 1/4" No. 8 flathead screw into the back support. Countersink with a drill for later plugging. Take the assemblies apart, glue, and reassemble them permanently. Plug all exposed countersunk holes.

After the glue is dry, make the 3/4" x 3/4" webbing strips and install them around the inside edge of the seat as shown in detail D. The distance between the spacers will be determined by the webbing. It is best to measure after purchasing the webbing. The sofa shown in the photographs has four strips of webbing lengthwise and 16 strips from front to back. There are 15 spacer blocks on both front and back and four blocks on each end. Wait until the wood finishing has been completed before tacking the webbing on.

With the strips in place, only the rounding of the corners is left before sanding and finishing. Use a small block plane and wood rasp to take the corners down fast. All corners should have a fairly large radius, as shown in the photographs. After roughing down the corners, a portable disk or belt sander will complete the smoothing of all but the most inaccessible places. Finish by hand with the grain, using progressively finer grades of paper until a silky sheen develops and surface is free of all scratches.

Spray or brush on the first of the finish coats. The sofa in the photographs was sprayed with clear lacquer, the first coat being clear lacquer sealer. Follow the manufacturer's directions for finishing, but in general, one coat of clear sealer and at least four coats of water-clear lacquer will give a good finish. Wet-sand the final coat with No. 400A Wet-or-Dry finishing paper and rub down with rubbing compound. This finish should not be waxed for about two weeks to allow the lacquer time for curing.

To tack on the webbing, follow detail D. Start at one end and tack all of the pieces on. Then go to the other end, stretch the webbing with a webbing stretcher, and tack down one after the other. The cross strips are done in the same manner, the strips being woven alternately as shown in the drawing.

The cushions are made from standard preformed sections of foam rubber 24" x 75" x 2". The preformed sections are bought in pairs and glued together as shown in the drawing. The edges of these sections are curved, and the centers are crowned about 2 1/2" high.

Follow the covering directions in the drawing carefully. Compressing the cushions with the muslin cover is important to

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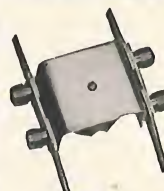
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An expert mechanic is not required for setting blades. With Magna-Set, anyone can do it!

The necessity of tapping, prying and re-adjusting is entirely eliminated!

Use of Magna-Set constitutes a saving on material spoilage and excessive and improper blade wear!

Send Post Card for information to:

**MAGNA-SET COMPANY** Dept. HC-10  
632 NEW HAVEN AVE. WOODMONT, CONN.

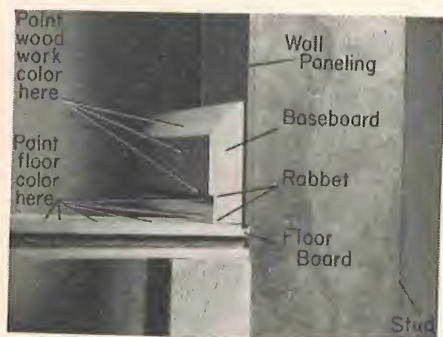


prevent wrinkles and sags in the finish material. The finish material on the original sofa is a modern, rough-textured cotton in rich turquoise blue with a thin gold thread. About  $4\frac{1}{2}$ " yards of 54" material are required to finish the cushion. The 54" material is wide enough to fold completely around the cushion. It is joined at the back by a standard 72" zipper. The ends of the cushion covers are made from separate narrow pieces.

#### BILL OF MATERIALS

Pcs.	T.	W.	L.	Part
1	1 $\frac{1}{4}$	3	6'-6"	Front support rail
1	1 $\frac{1}{4}$	2 $\frac{1}{2}$	6'-6"	Back support rail
2	1 $\frac{1}{4}$	2 $\frac{1}{2}$	12 $\frac{3}{4}$	Front arm supports
2	1 $\frac{1}{4}$	2	25	Arms
2	1 $\frac{1}{4}$	2	17	Back arm supports
1	1 $\frac{1}{4}$	4	12	Front legs
1	1	2	6'-6"	Back support
1	1 $\frac{1}{4}$	4	18	Back legs
3	1	2 $\frac{1}{2}$	24	Stretchers
1	1 $\frac{1}{4}$	3	5'-9 $\frac{1}{2}$ "	Back seat rail
1	1 $\frac{1}{4}$	2	6'-0"	Back top member
1	1 $\frac{1}{4}$	2 $\frac{1}{4}$	5'-10"	Seat front member
2	3 $\frac{3}{4}$	3 $\frac{3}{4}$	5'-8"	Webbing strips
2	1 $\frac{1}{4}$	2	4'-6"	Seat and back end members
2	3 $\frac{3}{4}$	3 $\frac{3}{4}$	5'-8"	Webbing strips
2	3 $\frac{3}{4}$	3 $\frac{3}{4}$	19	Webbing strips
38	1 $\frac{1}{4}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	Spacers-wood, fiberboard or washers
1	...	3 $\frac{3}{8}$	24	Dowel
1	...	1 $\frac{1}{2}$	4	Dowel

NOTE: All dimensions are in inches except where other; wise specified. 4 dozen 2" No. 10 flathead wood screws; 9-1 $\frac{1}{4}$ " No. 8 flathead wood screws; 5-1 $\frac{1}{4}$ " No. 10 flat; head wood screws; 1 box No. 6 upholstery tacks 65 ft. 3 $\frac{1}{2}$ " heavy webbing.



#### Easily Painted Baseboard

THE problem of making a neat junction between floor paint of one color and baseboard paint of another color can be solved by cutting a shallow rabbet along the lower, outer edge of the baseboard. Dimensions of the rabbet are not particularly important, for its purpose is only to create a slightly overhang that conceals the paint junction: something like  $\frac{1}{8}$ " or  $\frac{1}{4}$ " x  $\frac{3}{4}$ " usually will do.

Paint the floor in the usual way and run the color up the rabbeted part of the baseboard as far as the overhang. In painting the baseboard, it is easy to terminate the color in a sharp, straight line along the edge of the overhang, even if this edge has been rounded slightly by sanding. Running the floor color up the baseboard a short distance usually improves the appearance of the room, and it makes the painting a lot easier.

The mock-up in the photo shows how a rabbeted baseboard of  $\frac{3}{4}$ " wood can be installed. No molding is indicated along the junction between baseboard and floor, but the rabbet could be extended upward enough to accommodate quarter-round and still provide the helpful overhang. In this case, the quarter-round would be painted the same color as the floor.—W. E. Burton

## NOW! Put up Plywood Panels Without Nails!

It's a revolutionary construction technique! Made possible by a new adhesive...Weldwood Contact Cement! Lets you put up plywood with ease. Ends nail-setting and puttying. No finishing unsightly nail-holes. You install the plywood panels directly to studs or furring strips. Makes pre-finished plywood paneling more practical than ever before!



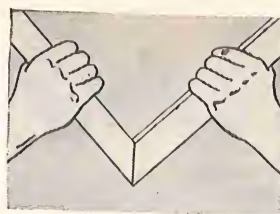
Weldwood Contact Cement bonds instantly without clamps or presses. 1001 uses in every home, shop, garage. For bonding wood, aluminum and other metals, cloth, felt, paper, leather, fiberglass, rubber. Wonderful for applying Micarta—without clamps or presses.

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It's ready-to-use! It sets fast! It bonds like magic! It's Weldwood Presto-Set\* Glue! The first white glue worthy of the Weldwood name. Just brush or swab on. Bonds wood to wood... wood to cloth... cloth to paper... upholstery fabrics to wood... leather to leather... many other uses.

Jobs can often be worked in 20 minutes after gluing. It forms a bond that stays strong. See how it speeds things around your workshop... see how it handles toughest jobs like magic!



## Makes Glued Joints even Stronger than Wood!

When your job demands professional results...or where water-resistance is important...use the glue that professional cabinetmakers love to use...Weldwood Plastic Resin Glue. It's just about the best wood glue there is! Actually makes glued joints stronger than the wood itself! Grows even stronger with age. Highly water-resistant, stain and rot-proof. Spreads smoothly and easily. A little goes a long way. Where quality counts most, there's no substitute for Weldwood Plastic Resin Glue—deservedly America's largest selling wood glue.



## Weldwood Glues — First Choice of Professionals!

Industrial woodworkers, builders and professional cabinetmakers know their very reputations are at stake, every time they do a job. So for them, only the best is good enough...and the best in glues are Weldwood Glues. That's why so many "pros" will use no glue unless it bears the Weldwood name. You too can use the glues that protect the reputations of the professionals. Weldwood Glues which insure a job done right every time! Available in 4 sizes.



reputations are at stake, every time they do a job. So for them, only the best is good enough...and the

## Make Inexpensive Plywood Look Rich and Costly!



Here's the easy way to "tame wild grain" on fir plywood stain jobs...and get the appearance of expensive woods.

Start with a base coat of Clear Firzite®! Subdues wavy grain. Helps end grain raise and checking. For oak, walnut, or mahogany stains, add colors-in-oil.

## How to Get that "Woody" Blond or Pickled Effect!

Blond, pickled or wiped effects are really popular. Get them easily on any kind of wood, without a "painty" or artificial look—with White Firzite. It brings out the handsome "woody" quality. For tinted effects add colors-in-oil. (On soft wood or fir plywood paint jobs, White Firzite as an undercoater helps prevent grain raise and checking.)



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Apply Satinlac® for a rich satiny effect which wears well and is easily maintained. The full beauty of the wood grain is accentuated and protected! Won't discolor with age. Dries so quickly, it's ready for the next coat in 3 or 4 hours.

Weldwood Glues...Satinlac...Firzite are available at all hardware, lumber and paint dealers.

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